Performance Data Sheet

AE4456Y-XN3C

General Information

Model	AE4456Y-XN3C	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	2870	2660	2450	2260	2080	1940	1830
	Watts	441	453	466	479	489	497	500
	Amps	2.13	2.17	2.22	2.26	2.30	2.33	2.34
	Lb/h	36.5	35.4	34.3	33.4	32.6	32.1	32.0
10	Btu/h	3300	3070	2830	2600	2380	2190	2020
	Watts	461	473	487	501	514	525	531
	Amps	2.21	2.25	2.30	2.35	2.40	2.43	2.46
	Lb/h	42.2	41.0	39.7	38.5	37.4	36.4	35.7
15	Btu/h	3790	3530	3270	3000	2740	2500	2270
	Watts	482	495	509	525	540	553	562
	Amps	2.29	2.33	2.38	2.44	2.50	2.54	2.58
	Lb/h	48.5	47.3	45.9	44.5	43.1	41.7	40.5
20	Btu/h	4310	4040	3750	3450	3150	2860	2590
	Watts	504	517	532	549	566	581	593
	Amps	2.37	2.41	2.47	2.53	2.60	2.65	2.70
	Lb/h	55.4	54.2	52.8	51.3	49.6	47.9	46.3
25	Btu/h	4870	4580	4270	3940	3610	3280	2950
	Watts	527	540	556	574	593	610	625
	Amps	2.45	2.50	2.56	2.63	2.70	2.77	2.82
	Lb/h	62.8	61.7	60.4	58.7	56.9	54.9	52.9
30	Btu/h	5450	5150	4820	4470	4100	3730	3360
	Watts	551	564	581	600	620	640	658
	Amps	2.54	2.59	2.66	2.73	2.81	2.88	2.95
	Lb/h	70.5	69.7	68.5	66.8	64.9	62.7	60.4
35	Btu/h	6050	5750	5400	5030	4630	4220	3800
	Watts	576	589	606	627	649	670	691
	Amps	2.63	2.68	2.75	2.83	2.92	3.00	3.08
	Lb/h	78.7	78.1	77.0	75.5	73.5	71.2	68.7
40	Btu/h	6670	6360	6000	5600	5180	4730	4270
	Watts	601	615	633	654	677	701	724
	Amps	2.73	2.78	2.85	2.94	3.03	3.13	3.22
	Lb/h	87.1	86.8	86.0	84.6	82.7	80.3	77.6

45	Btu/h	7300	6980	6610	6200	5750	5270	4770
	Watts	628	642	660	682	707	733	758
	Amps	2.83	2.88	2.96	3.05	3.15	3.25	3.36
	Lb/h	95.6	95.8	95.3	94.1	92.3	90.0	87.2
50	Btu/h	7920	7600	7230	6800	6330	5820	5290
	Watts	656	669	688	711	737	765	793
	Amps	2.93	2.99	3.06	3.16	3.27	3.38	3.50
	Lb/h	104	105	105	104	102	100	97.2
55	Btu/h	8540	8220	7840	7400	6910	6380	5820
	Watts	685	698	717	741	768	797	827
	Amps	3.04	3.09	3.17	3.28	3.39	3.51	3.64
	Lb/h	113	114	115	114	113	111	108
60	Btu/h	9150	8840	8450	8000	7500	6940	6350
	Watts	715	728	747	771	799	830	863
	Amps	3.14	3.20	3.29	3.39	3.52	3.65	3.78
	Lb/h	122	124	124	124	123	121	119

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.540400E+03	5.202505E+02	2.563201E+00	3.677561E+01
C2	6.340884E+01	6.369258E+00	2.409379E-02	4.818430E-01
C3	5.925683E-01	-4.967377E+00	-2.192746E-02	5.206646E-02
C4	7.485673E-01	3.566685E-02	8.819783E-05	4.796970E-03
C5	6.579240E-01	-7.572277E-02	-2.843668E-04	1.335883E-02
C6	-2.713489E-01	6.539067E-02	2.711534E-04	-2.411782E-03
C7	-8.819360E-03	-9.421420E-06	-6.817601E-08	-1.015018E-04
C8	5.653375E-03	-1.796076E-04	-1.626445E-07	1.388765E-04
C9	-7.085216E-03	5.189362E-04	1.937746E-06	-9.968071E-05
C10	1.240303E-03	-2.317584E-04	-9.401691E-07	1.188886E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature